

HIGHWAY, STREET

and

SEWER CASTINGS

FOREWORD

-0-

WE ARE PROUD TO PRESENT OUR COMPLETELY NEW 1955 CATALOG OF HIGHWAY, STREET, AND SEWER CASTINGS.

THIS CATALOG IS DESIGNED ESPECIALLY TO ASSIST THE ARCHITECT, THE ENGINEER, AND THE CONTRACTOR, IN SPECIFYING AND USING THE CORRECT CONSTRUCTION CASTING FOR THE JOB.

BECAUSE OF THE INCREASED DEMAND FOR NEW AND IMPROVED DESIGN, WE ARE CONSTANTLY ADDING NEW PATTERNS. FROM TIME TO TIME, WE WILL ISSUE ADDITIONS TO THIS CATALOG, WHICH WE ASK THAT YOU INSERT IN THE BINDER.

IN THE EVENT THAT THE CASTINGS SHOWN IN THIS CATALOG DO NOT MEET YOUR REQUIREMENTS, WRITE US GIVING DETAILED SPECIFICATIONS OR DRAWINGS, AND WE WILL BE HAPPY TO OFFER OUR SUGGESTIONS AND QUOTATIONS.

THE KRAMER BROS. FOUNDRY CO.
DAYTON 4, OHIO

Quality Gray Iron Castings

GENERAL SPECIFICATIONS

- Castings are made from properly selected and compounded materials, conforming to A.S.T.M. Designation A-48-48, Class 30 Iron or to United States Government specification QQI-652 for cast gray iron, having a tensile strength of at least 30,000 PSI, being of tough and close even grain.
- All castings shall be of highest uniform quality free of cracks, shrink or blow holes, non-porrous or other rejectable defects. All castings are cleaned by rattler or shot blasting to a smooth surface which shall be coated with a coal-tar pitch varnish, providing a smooth tough coating that will not scale off.
- All round lids shall fit truly and securely into the frames with the contact surfaces providing a firm even bearing without rattling. The lid and frame bearing areas to be machined if specified.
- All castings are to be made in accordance with standard patterns as defined by standard drawings and specifications. All weights and dimensions are an approximate average and any variation will not exceed the limits specified by A.S.T.M. Standards, or said standard specifications as submitted to our office. Dimension specifications shall prevail over weight allowances in all cases of estimated design.

SPECIFICATION DATA SHEET

ALL DIMENSIONS ARE IN INCHES ALL WEIGHTS ARE IN POUNDS ALL WEIGHTS ARE APPROXIMATE

ABBREVIATIONS

B = BAR WIDTH

G = GRATE

ID = INSIDE DIMENSION

O = OPENING

P = PIPE SIZE

T = THICKNESS

C = CURB LENGTH

H = HEIGHT

L = LID COVER

OD = OVERALL DIMENSION

S = SLOT OPENING

WT = WEIGHT

ROUND LID DESIGN **ABBREVIATIONS**

C = CHECKERED

D = DIAMOND

= INDENTED

K = KNOBS

W = WHEEL

ROUND GRATE DESIGN ABBREVIATION

B = BAR TYPE

C = CROSS TYPE

R = RIB TYPE

S = SLOT TYPE

SQUARE AND RECTANGULAR GRATE DESIGN **ABBREVIATIONS**



CB

CR

CB = CROSS BAR TYPE

CR = CROSS RAIL TYPE

LB = LINEAL BAR TYPE

LR _ LINEAL RAIL TYPE

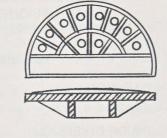




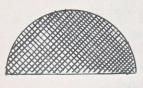
LR

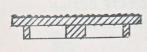
MANHOLE LID DESIGNS

TYPE C LID

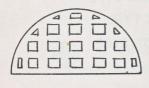


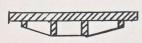
TYPE W LID



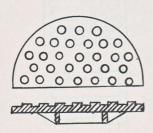


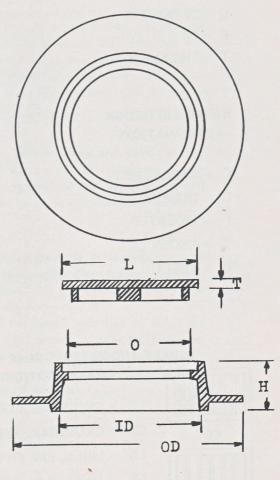
TYPE | LID



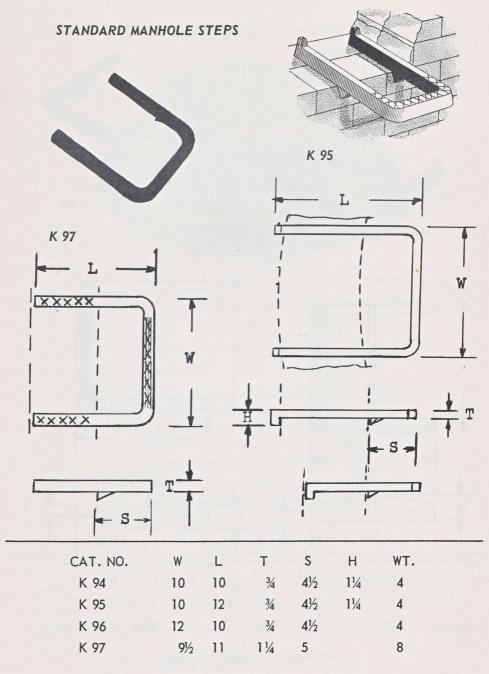


TYPE K LID

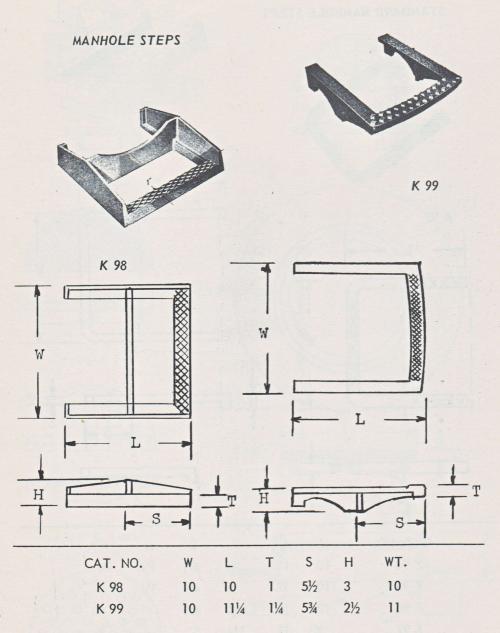




Furnished with machined bearing areas if specified



Designed for Brick, Block or Monolithic Manholes

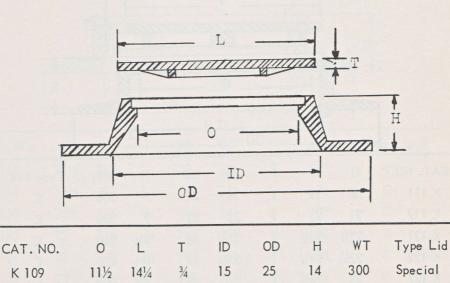


All Steps are Asphalt Coated and Rust and Corrosive Resistant

ROUND LAMP HOLE COVER AND MONUMENT BOX



K 110



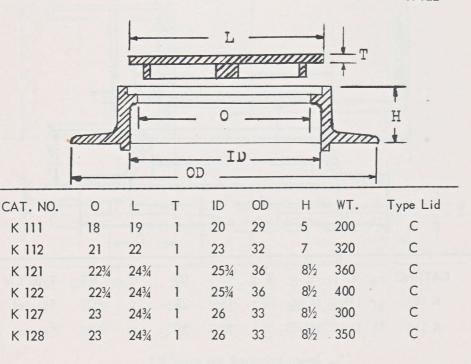
Write for Prices and Information

K 110 $14\frac{1}{2}$ $15\frac{1}{2}$ $\frac{3}{4}$ 18 25 8 125 Special

CITY OF DAYTON STANDARD MANHOLE COVERS

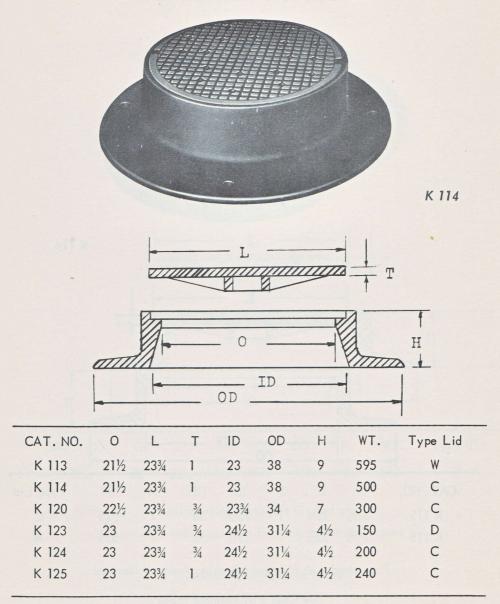


K 122



Furnished with Machined Bearing Areas if Desired

OHIO STANDARD ROADWAY MANHOLE COVERS

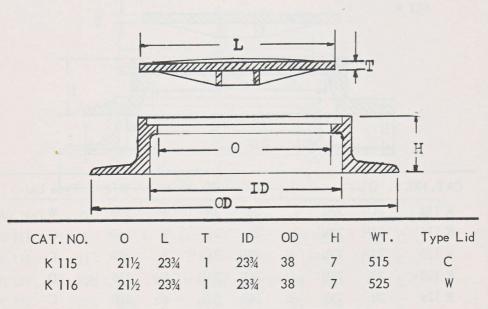


All Castings Asphalt Coated and Furnished with Machined Bearing Areas If Desired

HAMILTON COUNTY HEAVY DUTY MANHOLE COVERS



K 116



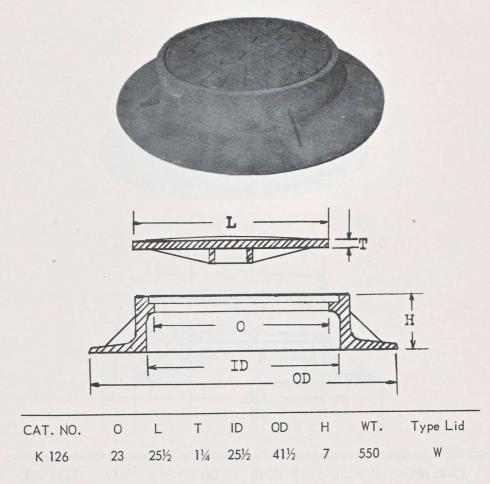
Furnished with Machined Bearing Areas if Desired

Use Cast Iron Manhole Steps

For All Construction

See Pages 5 and 6

HAMILTON COUNTY HEAVY DUTY VALVE CHAMBER

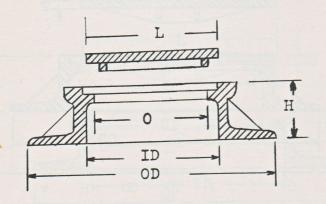


All Castings Asphalt Coated and Furnished with Machined Bearing Areas if Desired

> Use Cast Iron Manhole Steps Rust and Corrosive Resistant See Page 5 and 6

SIDEWALK MANHOLE COVER





CAT. NO.	0	L	Т	ID	OD	Н	WT.	Type Lid
K 117								

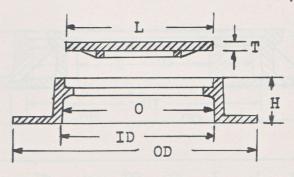
* Can be Furnished with Inside Lid For Water Proof Cover See Catalog No. K 146

> Write for Prices and Information If You Do Not See It Ask For It

CITY OF SPRINGFIELD AND BUTLER COUNTY HEAVY DUTY MANHOLE COVERS



K 119



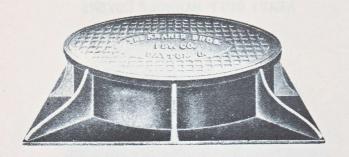
CAT. NO.	0	L	Т	ID	OD	Н	WT.	Type Lid
K 118	221/4	24	3/4	25	34	81/4	380	D
K 119	221/4	24	3/4	25	34	81/4	345	K

All Castings Asphalt Coated and Furnished with Machined Bearing Areas if Desired

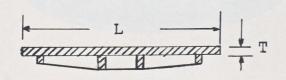
> Use Cast Iron Manhole Steps For All Construction

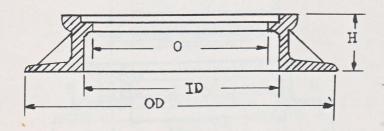
> > See Pages 5 and 6

SPECIAL HEAVY DUTY MANHOLE COVERS



K 129





CAT. NO.	0	L	Т	ID	OD	Н	WT.	Type Lid
K 129	25	28	1	26	41 x 49	8	700	*
K 130	25	28	1	26	41 x 49	10½	900	*
K 131	30	37	1	33	48 x 48	10	1200	1
K 132	30	38	1	36	50 x 50	10	1100	*
K 133	31	36	1	31	47 x 47	8	1050	*

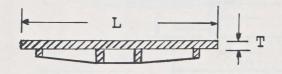
*Can Be Furnished With Inside Frost Proof Lid And Machined Areas If Desired

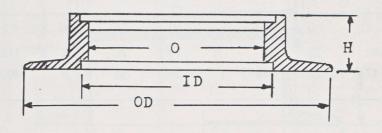
Write for Prices and Information

LARGE MANHOLE COVERS



K 134





CAT. NO.	0	L	Т	ID	OD	Н	WT.	Type Lid
K 134	34	36	11/4	36	46	5	500	Special
K 135	34	36	11/4	36	46	5	590	

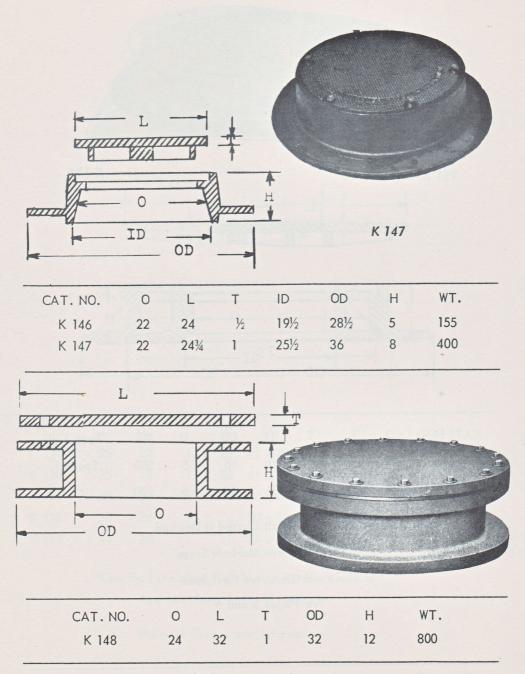
All Castings Asphalt Coated if Desired

Use Cast Iron Manhole Steps

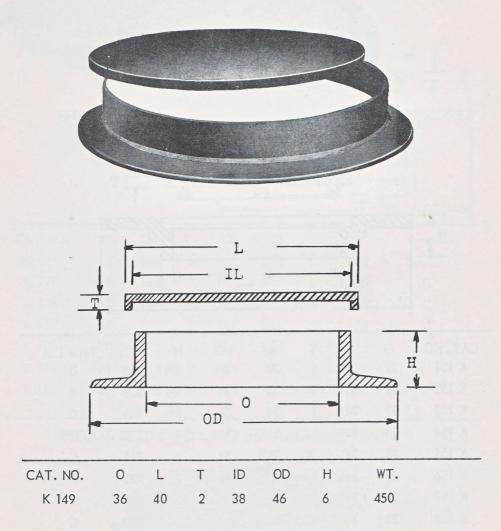
Rust and Corrosive Resistant

See Pages 5 and 6

CITY OF DAYTON HEAVY DUTY PRESSURE MANHOLE COVERS

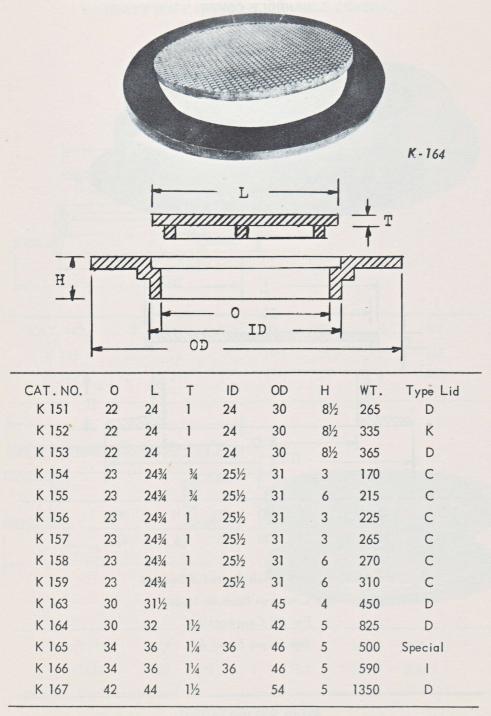


WATER PROOF TANK OR RESERVOIR MANHOLE COVER

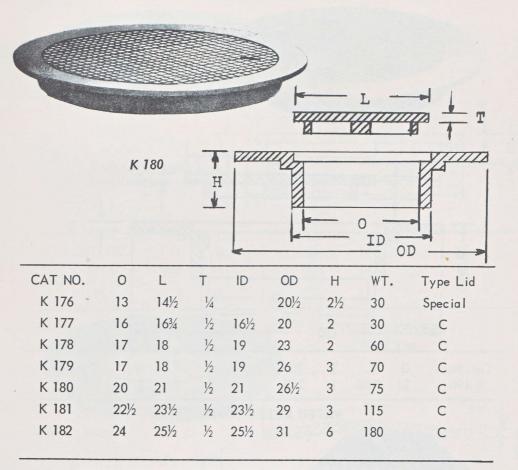


All Castings Asphalt Coated if Desired
Use Cast Iron Manhole Steps
For All Construction
See Pages 5 and 6

ROUND SLAB TYPE HEAVY DUTY MANHOLE COVERS



ROUND SLAB TYPE LIGHT DUTY MANHOLE COVERS

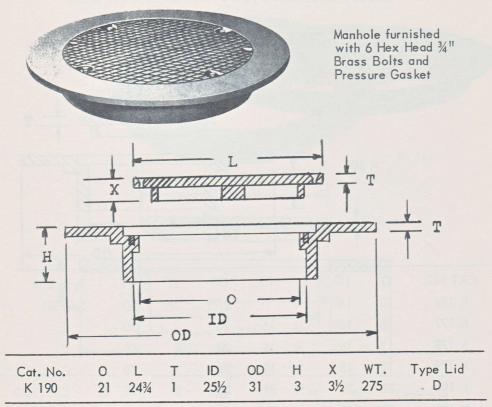


SPECIAL SLAB TYPE LIGHT DUTY MANHOLE COVER

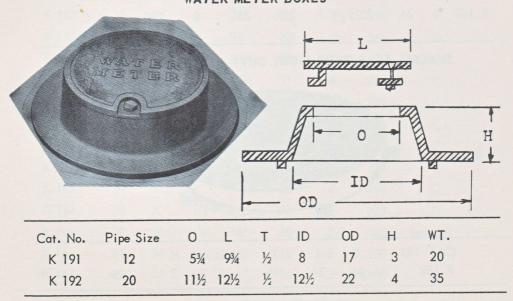


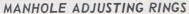
CAT. NO.	0	L	T	OD	Н	WT.	
K 189	34	36	11/4	38	3	325	

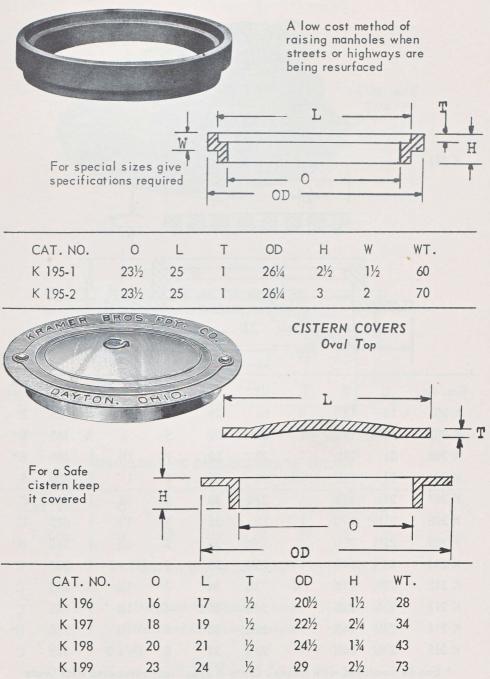
PRESSURIZED HEAVY DUTY SLAB TYPE MANHOLE COVER



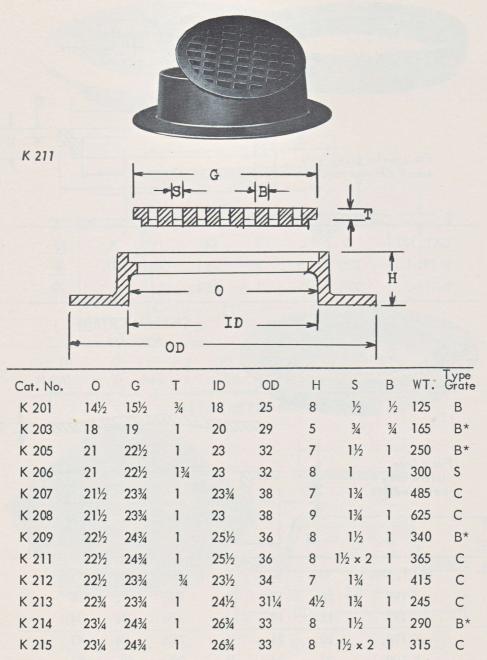
WATER METER BOXES





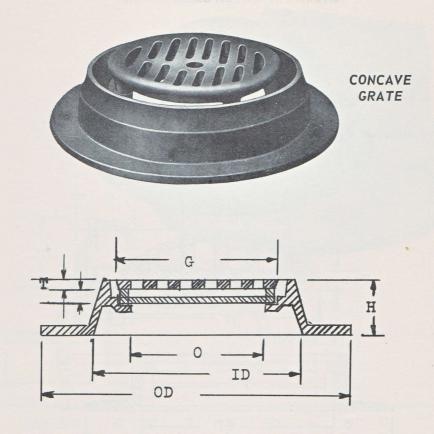


HEAVY DUTY CATCH BASIN COVERS



^{*} Can be furnished with Convex Grate if specified; otherwise Flat Grate will be supplied. Furnished with machined bearing areas if specified

ROUND OAKWOOD CATCH BASIN COVER



NON-CLOGGING OPENING GRATE DESIGN

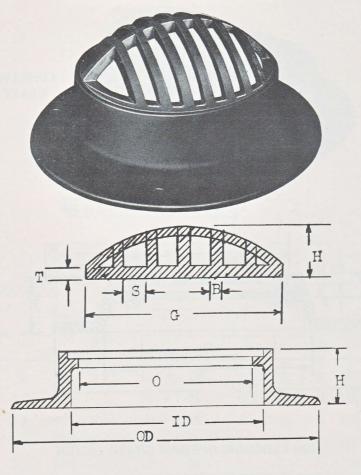
CAT. NO.	0	G	Т	ID	OD	Н	S	В	WT.
K 235	17	18	1½	23	29	5	1	1	200

Will Fit Bell of 24" Tile

Use Cast Iron Manhole Steps Rust and Corrosive Resistant

See Pages 5 and 6

HEAVY DUTY CROWN TOP CATCH BASIN COVER



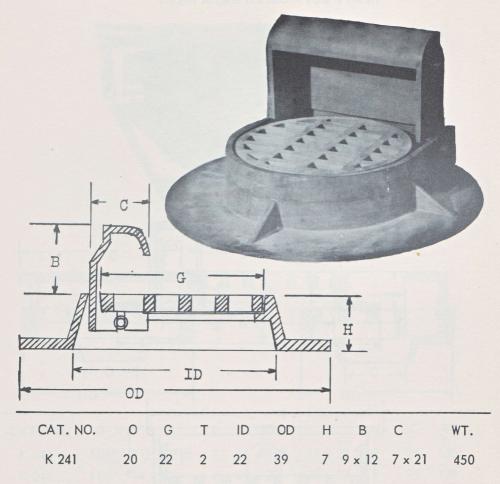
Cat. No.	0	G	Т	ID	OD	Н	S	В	WT.	
K 236	21	221/2	1	23	32	7	2	1	255	

Designed for Roadside and Ditch Drainage

All Castings Asphalt Coated Unless Otherwise Specified

Write for Prices and Information

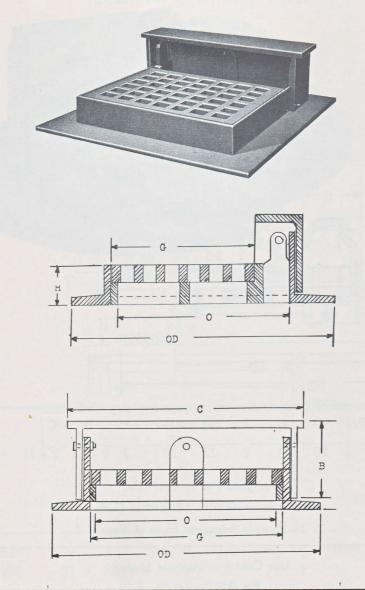
HEAVY DUTY CATCH BASIN INLET



Designed For Special Inlet
Requirements With Adjustable Curb
To Provide Adequate Flow of Water

Use Cast Iron Manhole Steps
For All Construction
See Pages 5 and 6

CITY OF SPRINGFIELD HEAVY DUTY CATCH BASIN INLET

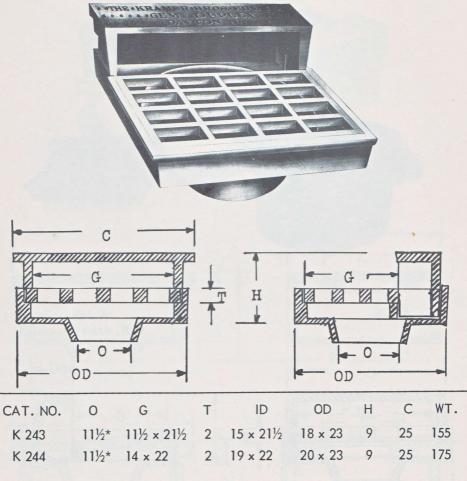


Cat. No. O G T ID OD H B C WT.

K 242 22 x 23 18 x 24 2 24 x 24 33 x 34 5 9 to 11 29½ 400

Designed with Adjustable Curb

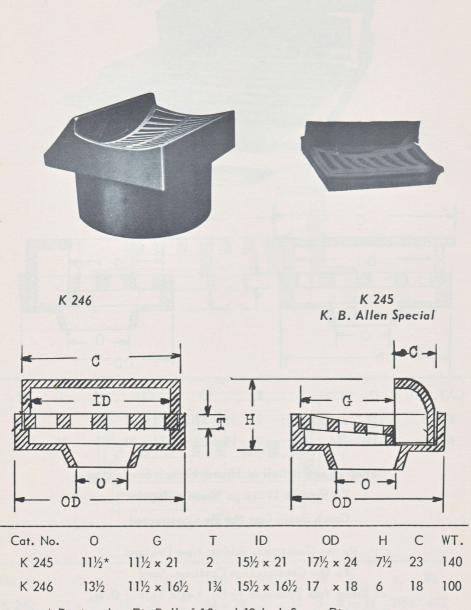
GEM DUPLEX CATCH BASIN INLET



*Designed to Fit Bell of 10 and 12 inch Sewer Pipe
To Provide Drainage Where a Regular
Catch Basin Can Not Be Constructed

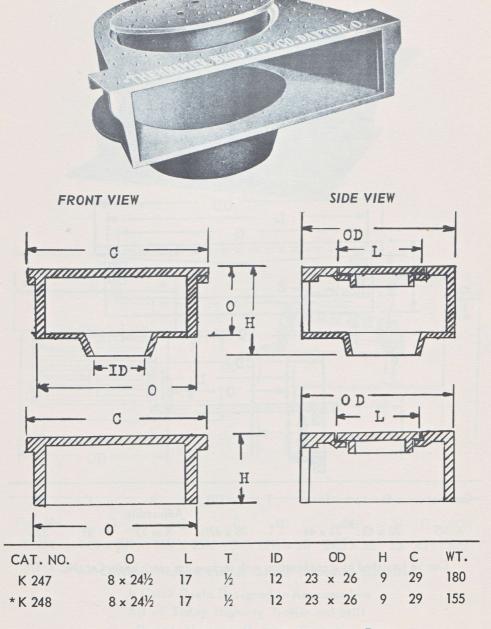
We are Constantly Adding New Designs
To Our Construction Castings. Send
or Bring Your Problems to Us. Let's Talk it Over,
Remember, Construction Castings Are Our Business

HILL SIDE CATCH BASIN INLETS



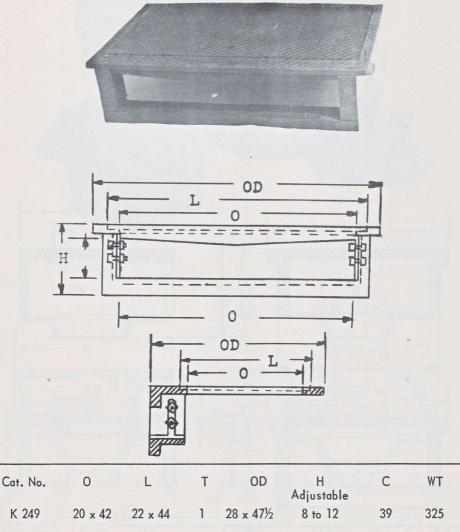
^{*} Designed to Fit Bell of 10 and 12 Inch Sewer Pipe K 246 for 12 Inch Sewer Pipe Only

GEM 35 CATCH BASIN INLET



Designed To Fit Bell of 10 and 12 Inch Sewer Pipe K 248 Furnished Without Bell or Bell and Bottom Plate as Specified

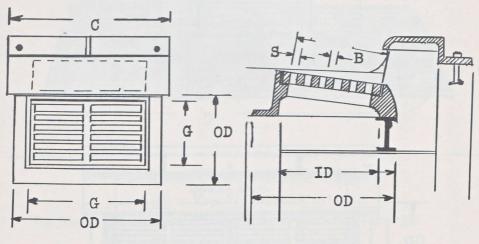
CITY OF DAYTON AND MONTGOMERY COUNTY CATCH BASIN NO. 1



Can be furnished as a combination with rectangular catch basin Cat. No. K 376

NO. 3-A HEAVY DUTY CATCH BASIN INLET STATE OF OHIO HIGHWAY CASTINGS

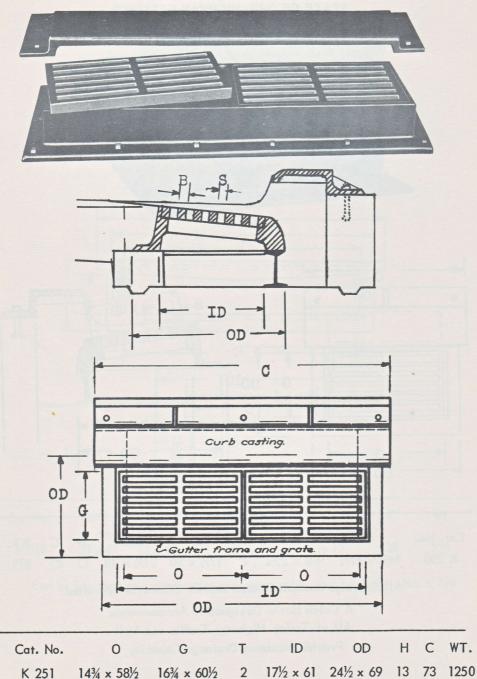




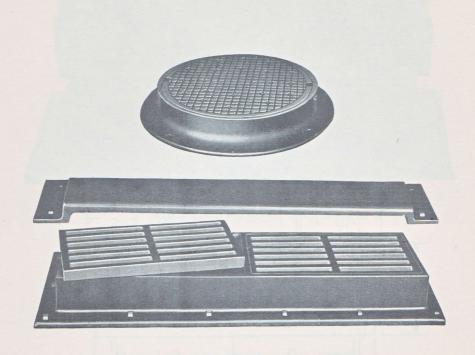
Cat. No. O G T ID OD H C WT. K 250 14\% \times 27\% 16\% \times 29\% 2 17\% \times 30 24\% \times 38 13 42 625

All Castings Asphalt Coated Unless Otherwise Specified
A Catch Basin Designed to Accommodate
All of Today Highway Traffic and Still
Provide Maximum Drainage Capacity

NO. 3 HEAVY DUTY CATCH BASIN INLET STATE OF OHIO HIGHWAY CASTINGS



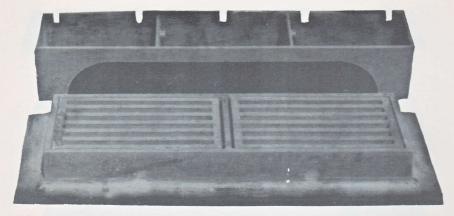
NO. 3 COMBINATION CATCH BASIN INLET STATE OF OHIO HIGHWAY CASTINGS

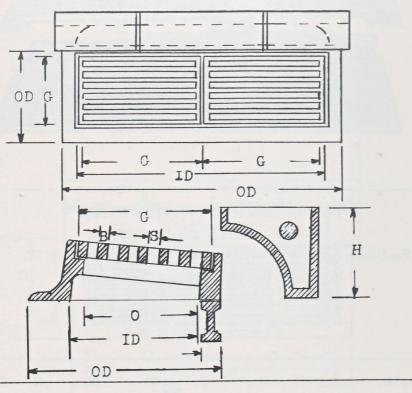


For Dimensions of Curb, Frame and Gratings
Refer to Page 32 Cat. No. K 251
For Dimensions of Manhole Cover Refer to Page 9 Cat. No. K 125
Use Modern Designs for Modern Construction

Cat. No.	0	G	Т	ID	OD	Н	C	WT.
		16¾ × 60½						

CITY OF CINCINNATI AND HAMILTON COUNTY COMBINATION CATCH BASIN INLET



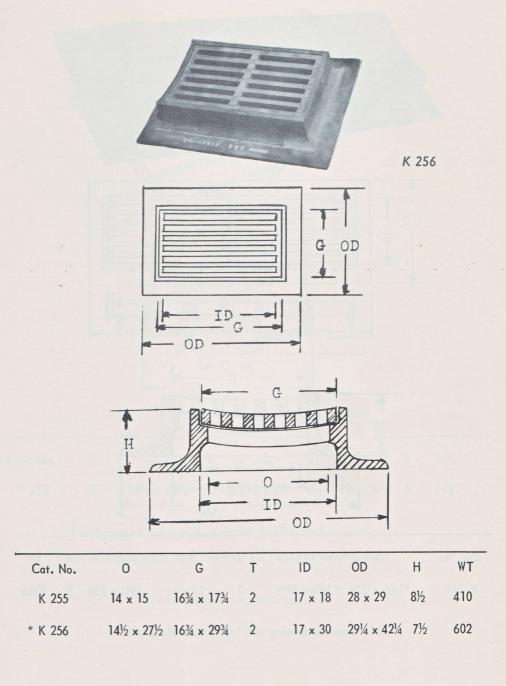


0 G T ID OD Н C WT Cat. No.

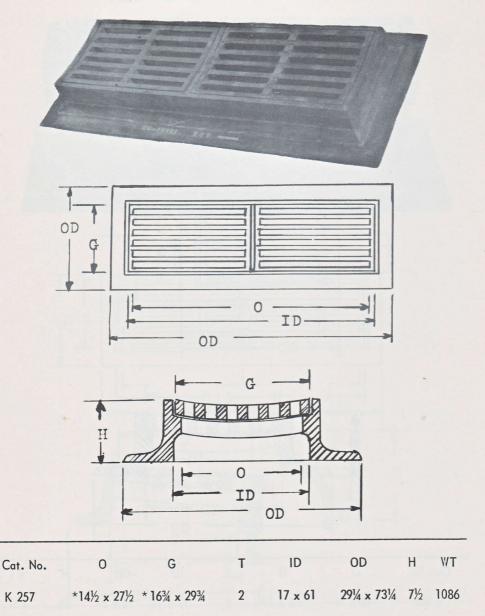
* O is a double opening and *G is a double grate

K 253

*CITY OF CINCINNATI AND HAMILTON COUNTY SINGLE VALLEY INLET

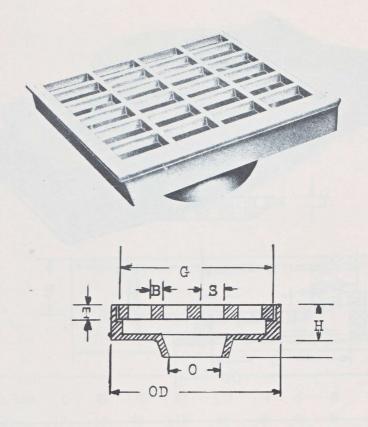


CITY OF CINCINNATI AND HAMILTON COUNTY DOUBLE VALLEY INLET



* O is a double opening and * G is a double grate

GEM DUPLEX CATCH BASIN INLET LESS CURB

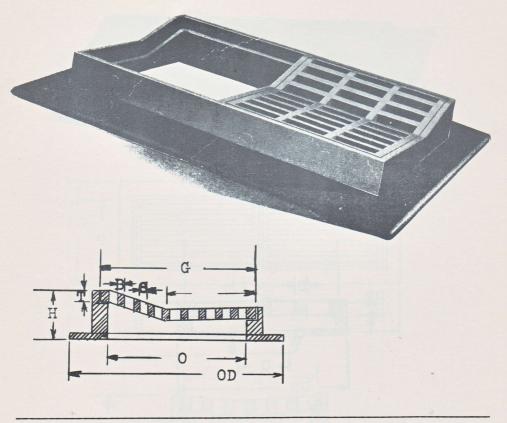


Cat. No.	0	G	Т	OD	Н	S	В	WT.
K 258	12	16½ × 21½	2	18 × 23	4	1½ × 4½	1	145

Designed to Fit the Bell of 10 or 12 Inch Sewer Pipe Adequate Drainage is Essential to Todays Parking Areas

Write for Prices and Information

SPECIAL CATCH BASIN INLET



Cat. No. O G T ID OD H S B WT. K $259 \ 32\frac{1}{4} \times 59\frac{3}{4} \ 34\frac{1}{2} \times 61\frac{1}{2} \ 2 \ 34\frac{1}{2} \times 62 \ 44\frac{1}{2} \times 70 \ 9\frac{1}{2} \ 1 \ 1420$

Furnished in Two Piece Frame Right and Left Hand Sections

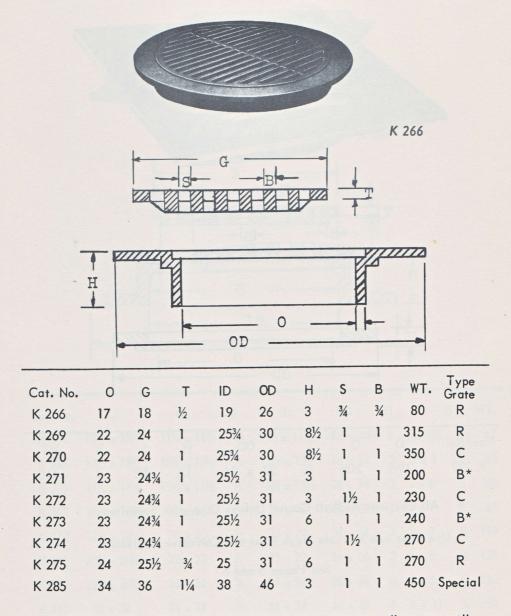
Designed for Rolled Curb Construction to Provide

Maximum Drainage Capacity

Specify the Proper Designed Castings for Todays Requirements

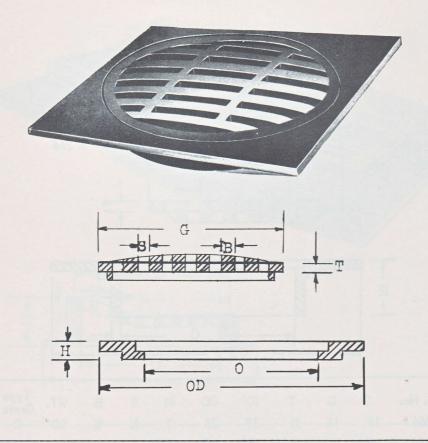
In Modern Road Way Design

ROUND HEAVY DUTY SLAB TYPE GRATE AND FRAME



^{*}Can be furnished with convex grate if specified otherwise flat grate will be supplied. Furnished with machined bearing areas if specified

ROUND OVAL GRATING WITH SQUARE FRAME



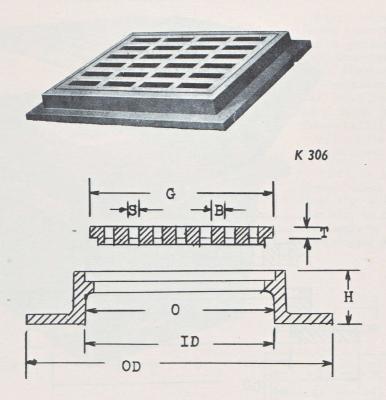
Cat. No.	0	G	Т	OD	Н	S	В	WT.
K 299	191/2	201/2	1/2	24 x 24	1½	11/2	1	110

All Castings Asphalt Coated Unless Otherwise Specified

Use Cast Iron Manhole Steps Rust and Corrosive Resistant

See Pages 5 and 6

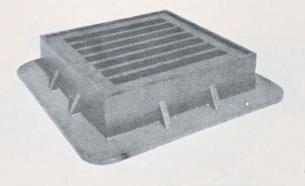
LIGHT DUTY SQUARE CATCH BASIN



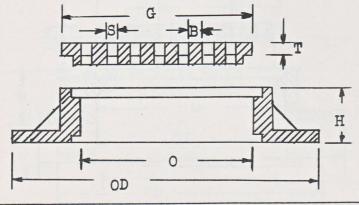
Cat. No.	0	G	Т	ID	OD	Н	S	В	WT.
K 304	10½ x 10½	11½ x 11½	1/2	11½ x 11½	14½ x 14½	3	1 x 4½	3/4	42
K 305	12½ x 12½	13½ x 13½	1/2	13½ x 13½	18 x 18	3	½ x 3	3/8	50
K 306	14½ x 14½	15½ x 15½	1/2	15½ x 15½	18 x 18	3	1 x 6	3/4	65
K 309	16½ x 16½	18 x 18	1/2	18 x 18	21½ x 21½	3	1 x 7	3/4	85
K 310	18½ x 18½	20 x 20	1/2	20 x 20	24 x 24	3	1 x 8	3/4	110
K 311	20½ x 20½	22 x 22	1/2	22 x 22	26 x 26	3	1 x 6	3/4	125
K 312	22½ x 22½	24 x 24	1/2	24 x 24	28 x 28	3	1 x 6	3/4	150
K 317	32 x 32	34 x 34	1/2	34 x 34	40 x 40	4	3/4 x 11	3/4	310

All Grates Are (CB) Cross Bar Design

HEAVY DUTY SQUARE CATCH BASIN

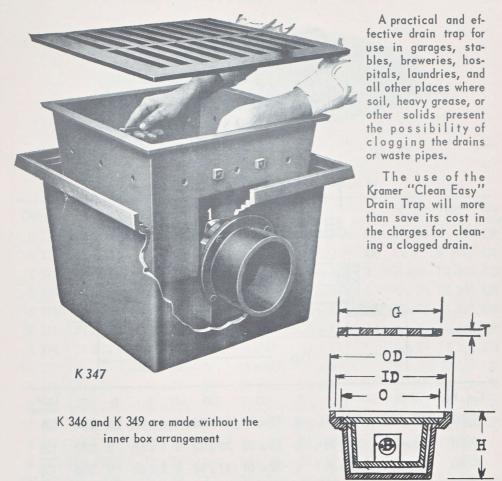


K 333



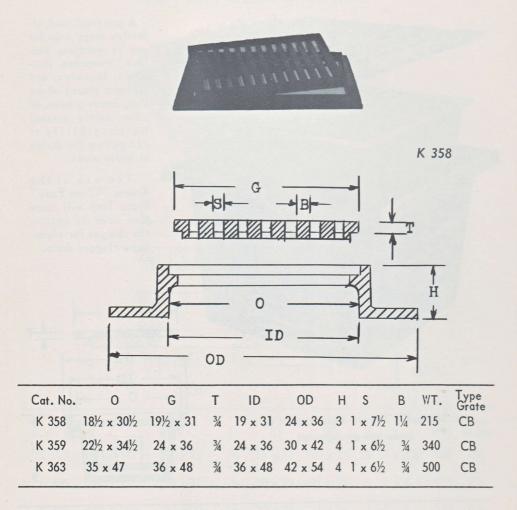
Cat. No	. 0	G	Т	ID	OD	Н	S	WT.	Type Grate
K 327	11 x 11	12 x 12	1/2	14 x 14	21 x 21	8	1 x 4½	125	СВ
K 329	17 x 17	18 x 18	1/2	20 x 20	28 x 28	5	1 x 4	215	СВ
K 330	18½ x 18½	20 x 20	1/2	20 x 20	24 x 24	3	1 x 5	135	СВ
K 331	20½ x 20½	22 x 22	1/2	22 x 22	26 x 26	3	1 x 5½	160	СВ
K 332	22½ x 22½	24 x 24	1/2	24 x 24	28 x 28	3	1 x 6	190	СВ
K 333	22 x 22	24 x 24	1	24 x 24	34 x 34	7	2 x 9½	400	CR
K 334	22 x 22	24 x 24	2	24 x 24	34 x 34	7	1¾ x 2¼	480	СВ
K 335	26 x 26	28 x 28	1	30 x 30	36 x 36	6	2 x 23	390	CR

"CLEAN EASY" DRAIN TRAP



Cat. No.	G	T	ID	OD	Н	В	WT	
K 346	6½ x 6½	1/2		8 x 8	7	2	23	
K 347	11½ x 11½	1/2	11 x 11	12½ x 12½	9	3	74	
K 348	18 x 18	1/2	17 x 17	19½ x 19½	121/2	3	180	
K 349	21¾ x 21¾	1/2		24¾ × 24¾	24	3	240	

LIGHT DUTY RECTANGULAR CATCH BASIN



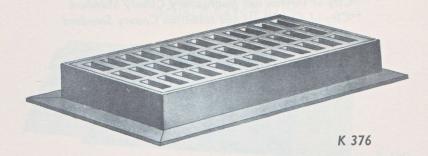
All Castings Asphalt Coated If Specified

Use Cast Iron Manhole Steps

In All Catch Basin Construction

For Types of Design See Pages 5 and 6

HEAVY DUTY RECTANGULAR CATCH BASIN



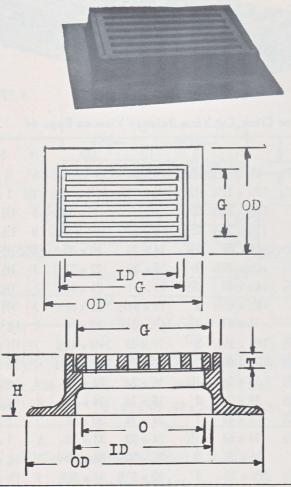
For Cross Cut View Refer to View on Page 44

								-		
Cat. No	. 0	G	T	ID	OD	Н	S	В	WT	Type Grate
K 370	6 x 12½	$6\frac{3}{4} \times 13\frac{1}{2}$	2	7½ x 14	14½ x 20½	6	3/4 x	534 1	2 8	5 CB
K 371	91/4 x 111/4	10¼ x 12¼	11/2	10½ x 12½	15½ x 17½	41/2	1 x	8 3	4 100	CR
K 372	12 x 27	13½ x 28½	21/2		20 x 34½	3	1½ x	31/4	11/4 21	0 CB
K 373	12 x 27	13½ x 28½	21/2	14½ x 29½	19½ x 34½	6	1½ x	31/4	11/4 28	O CB
K 374	13 x 27	14 x 28	21/4	14 x 28	20 x 30	31/2	1½ x	3¾	3/4 19	0 CB
K 375	13½ x 28½	14½ x 29½	2	15 x 30	22 x 37	7	1½ x	261/2	11/4 33	0 LR
K 376	13 x 38½	14½ x 40	21/2	15 x 41	21 x 47	7	1½ x	31/4	11/4 35	0 CB
* K 377	13½ x 60	14½ x 60½	2	15 x 61½	22 x 68½	7	1½ x	261/2	11/4 62	0 LR
K 378	13½ x 29	15 x 31	21/2	16½ x 31½	22 x 38	7	1¾ x	3¾	11/4 35	50 CB
K 379	14½ x 27½	16¾ x 29¾	2	17 x 30	29¼ x 42¼	71/2	11/4 x	26¾	11/4 6	10 LR
* K 380	14½ x 58¾	16¾ x 60½	2	17 x 61	29¼ x 73¼	71/2	11/4 x	26¾	11/4 11	00 LR
K 381	16½ x 22½	18 x 24	11/4	18 x 24	24 x 30	4	1 x	41/2	1 20	50
K 382	16½ x 22½	18 x 24	2	18 x 24	24 x 30	4	1¾ x	21/4	1 30	00
* K 383	22½ x 22½	24 x 49	1	24 x 24	30 x 56	3	2 x	191/2	1 47	70 LR
* K 384	22½ x 30½	24 x 65	13/4	24 x 32	31 x 73	5	1 x	3¾	1 110	00
K 385	24 x 28	26 x 30	2	26 x 30	36 x 40	11	1¾ x	21/4	11/4 7	85
* K 386	28½ x 28½	29½ x 30	2	30 x 31½	37 x 38½	7	1½ x	261/2	11/4 6	00 LR
* K 387	28 x 29	30 x 31	21/2	30 x 32	37 x 39	7	1¾ x	3¾	11/4 6	30
* K 388	27 x 38½	30 x 40	21/2	31 x 41	37 x 47	7	1½ x	31/4	11/4 6	90

^{*} Made with double openings and double grates

HEAVY DUTY SINGLE CATCH BASIN

*City of Dayton and Montgomery County Standard
**City of Cincinnati and Hamilton County Standard

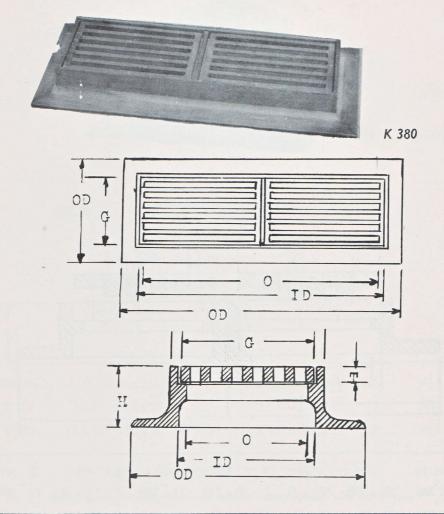


Cat. No.	0	G	Т	ID	OD	Н	S	В	WT Type Grate	
*K 375	13½ x 28½	14½ x 29½	2	15 x 30	22 x 37	7	1½ x 26½	11/2	330 LR	
**K 379	14½ x 27½	16¾ x 29¾	2	17 x 30	29½ x 42½	71/2	1½ x 26¾	11/4	610 LR	

All Castings Asphalt Coated If Specified

Write for Prices and Information

*CITY OF DAYTON **CITY OF CINCINNATI AND HAMILTON COUNTY DOUBLE CATCH BASIN



Cat. No.	0	G	Т	ID	OD	Н	S	В	WT
* K 377	13½ x 28	14½ x 29½	2	15 x 61½	22 x 68½	7	1½ x 26½	11/4	620
**K 380	14½ × 27½	16¾ x 29¾	2	17 x 61	291/4 x 731/4	71/	2 1½ x 26¾	11/4	1100

^{*} Frame furnished in two section and set end to end

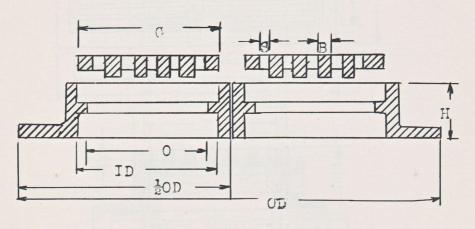
Both of the above designs have double openings and double grates

HEAVY DUTY DOUBLE CATCH BASIN

City of Dayton and Montgomery County Standard (Side by Side)



K 386



	0								01410
K 386	28½ x 28½	29½ x 30	2	30 x 31½	37 x 38½	7	1½ x 26½	11/4	600 LR
K 387	28 x 29	30 x 31	21/2	30 x 32	37 x 39	7	$1\frac{3}{4} \times 3\frac{3}{4}$	11/4	630 CB
K 388	27 x 38½	30 x 40	21/2	31 x 41	37 x 47	7	1½ x 3¼	11/4	690 CB

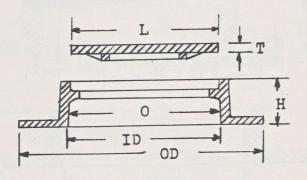
Use Cast Iron Manhole Steps in All Catch Basin Construction

For Types of Design See Pages 5 and 6

SQUARE LAMP HOLE COVER AND MONUMENT BOX



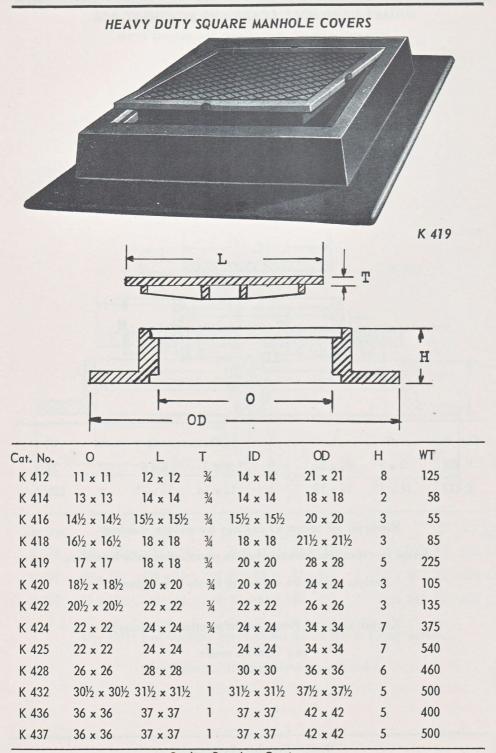
K 412

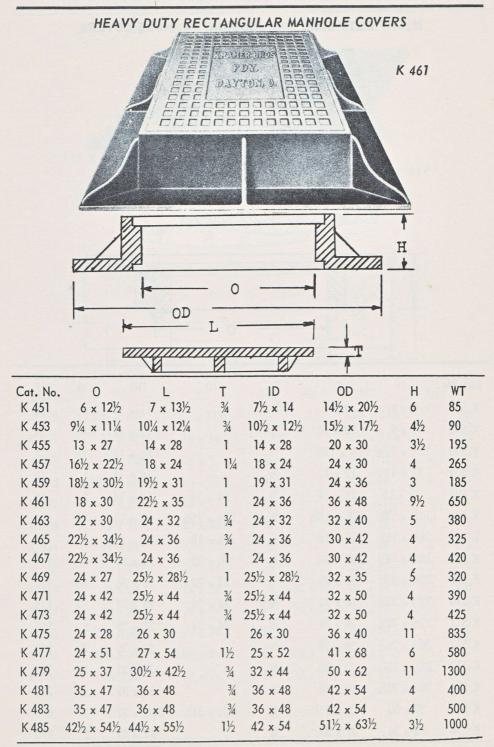


Cat. No.	0	L	Т	ID	OD	Н	WT
K 404	3 x 3	3½ x 3½	1/2	3 x 3	6 x 6	7	20
K 412	11 x 11	12 x 12	3/4	14 x 14	21 x 21	8	125

Nearly all our contractor castings are made to standard design specification. However modern construction calls for modern designs and we are anxious to supply your demands.

Consult us for all Prices and Information Pertaining to your Castings needs

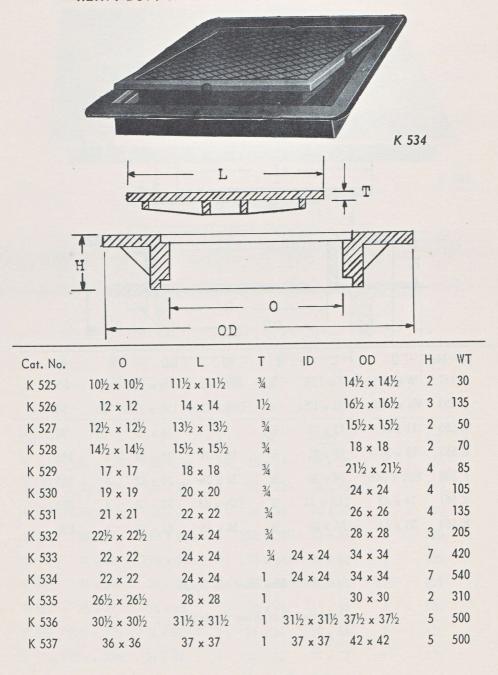




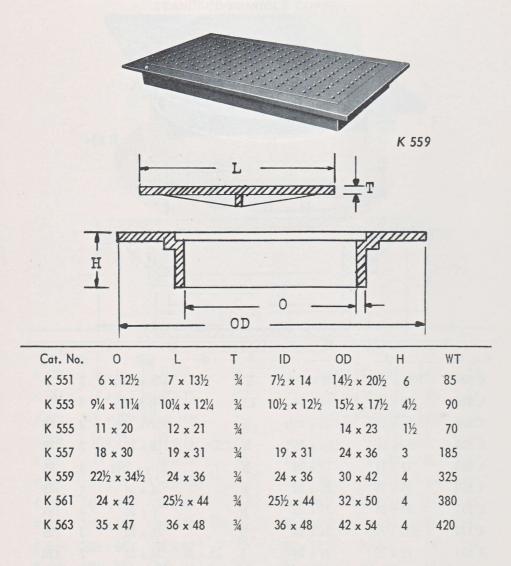
LIGHT DUTY SLAB TYPE SQUARE MANHOLE COVERS

	H		L -	0	→ T	K 511	
Cat. No.	. 0	L	Т	ID	OD	Н	WT.
K 501	8 x 8	9 x 9	1/2		11 x 11	4 -	20
K 502	9 x 9	10 x 10	1/2		12 x 12	11/2	24
K 503	10½ x 10½	11½ x 11½	1/2		14½ x 14½	1½	26
K 504	11 x 11	12 x 12	1/2		14 x 14	4	40
K 505	13 x 13	14 x 14	1/2	14 x 14	18 x 18	2	58
K 506	14½ x 14½	15½ x 15½	1/2	15½ x 15½	18 x 18	11/2	55
K 507	16½ x 16½	18 x 18	1/2	18 x 18	21½ x 21½	2	85
K 508	18½ x 18½	20 x 20	1/2	20 x 20	24 x 24	11/2	105
K 509	20½ x 20½	22 x 22	1/2	22 x 22	26 x 26	1½	120
K 510	22½ x 22½	24 x 24	1/2	24 x 24	28 x 28	1½	135
K 511	22½ x 22½	24 x 24	1/2	24 x 24	28 x 28	5	150
K 512	26½ x 26½	28 x 28	3/4		30 x 30	21/2	250
K 513	28½ x 28½	30 x 30	3/4		32 x 32	1½	210
K 514	28½ x 28½	30 x 30	3/4		32 x 32	3	235
K 515	30 x 30	31½ x 31½	3/4	31½ x 31½	37½ x 37½	5	400
K 516	36 x 36	37 x 37	3/4		42 x 42	2	370

HEAVY DUTY SLAB TYPE SQUARE MANHOLE COVERS



LIGHT DUTY SLAB TYPE RECTANGULAR MANHOLE COVER

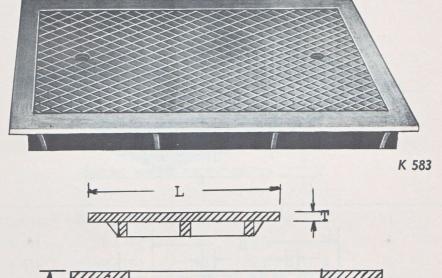


Use Cast Iron Manhole Steps

Rust and Corrosive Resistant

See Pages 5 and 6

HEAVY DUTY SLAB TYPE RECTANGULAR MANHOLE COVERS

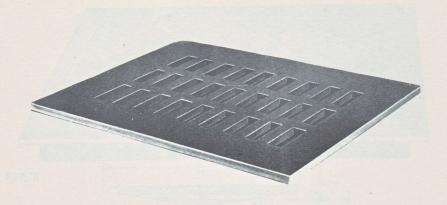


H				
-	-		0	
		OD		

Cat. No.	. 0	L	Т	ID	OD	Н	WT
K 575	16½ × 22½	18 x 24	11/4	18 x 24	24 x 30	4	265
K 577	22 x 30	24 x 32	1	24 x 32	32 x 40	5	380
K 579	22½ x 34½	24 x 36	1	24 x 36	30 x 42	4	420
K 581	24 x 27	25½ × 28½	1	25½ x 28½	32 x 35	5	320
K 583	24 x 42	25½ x 44	1	25½ x 44	32 x 50	4	425
K 585	24 x 28	26 x 30	1	26 x 30	36 x 40	11	835
K 587	35 x 47	36 x 48	1	36 x 48	42 x 54	4	500
K 598	*22½ x 22½	*24 x 24	1	*24 x 24	30 x 56	3	425
K 599	*22½ x 30½	*24 x 32	1	*24 x 32	31 x 73	5	725

^{*} Made with double openings, double inside dimensions and double lids

LIGHT DUTY SQUARE GRATES



G T

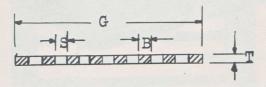
K 610

Cat. No.	G	Т	S	В	WT
K 600	$6\frac{1}{2} \times 6\frac{1}{2}$	1/2	½ × 4	1/2	3
K 601	8 x 8	1/2	½ × 3	1/2	7
K 602	9 x 9	1/2	½ x 3	1/2	7
K 603	10 x 10	1/2	½ × 4	1/2	9
K 604	11½ × 11½	1/2	½ × 4	1/2	12
K 605	13½ × 13½	1/2	½ x 3	1/2	16
K 606	14 x 14	1/2	½ × 3	1/2	20
K 607	15½ × 15½	1/2	½ × 6	3/4	30
K 608	17 × 17	1/2	2 x 31/4	3/4	35
K 609	18 x 18	1/2	1 x 7	3/4	45
K 610	20 x 20	1/2	1 x 8	3/4	55
K 611	22 × 22	1/2	1 × 6	3/4	65
K 612	24 x 24	1/2	1 x 6	3/4	85
	All Grates ar	e (CB)	Cross Bar D	esign	

DIAMOND GRATES FOR FLOOR GRIDS



K 617

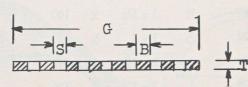


Cat. No.	G	Т	S	В	WT
K 614	6 x 12	1/2	2 x 2	3/4	5
K 615	12 x 12	1/2	2 x 2	3/4	10
K 616	12 x 24	. 1/2	2 x 2	3/4	20
K 617	24 x 24	1/2	2 x 2	3/4	40
K 618	24 x 36	1/2	2 x 2	3/4	60

SIDE WALK OR FIREPLACE GRATES

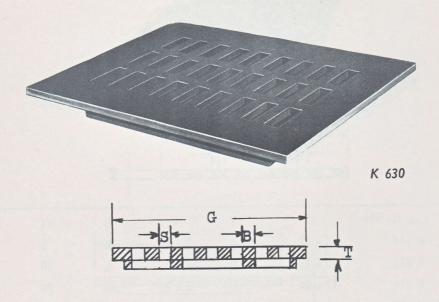


K 622



ength) WT/Per/Ft.
to 24 11
to 36 14
to 36 20
to 36 31
½ to 36 38
1 to 36 42
1

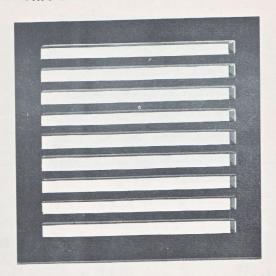
HEAVY DUTY SQUARE GRATES

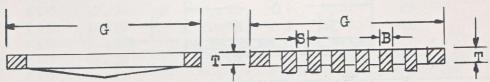


Cat. No.	G	T	S	В	WT	Туре
K 626	10 x 10	1	1 x 4	3/4	25	СВ
K 627	12 x 12	1/2	1 x 4½	3/4	30	СВ
K 628	14 x 14	2	1 x 10	1	38	CR
K 629	18 x 18	1/2	1 x 4	3/4	65	СВ
K 630	20 x 20	1/2	1 x 5	3/4	80	СВ
K 631	22 x 22	1/2	1 x 5½	3/4	100	СВ
K 632	24 x 24	1/2	1 x 6	3/4	125	СВ
K 633	24 x 24	1	2 x 19½	1	110	CR
K 634	28 x 28	1	2 x 23½	1	130	CR
K 635	29 x 29	1	2 x 4	1	100	СВ
K 636	34 x 34	1½	34 x 11	1/2	175	СВ

All Castings Asphalt Coated If Specified
Write for Prices and Information

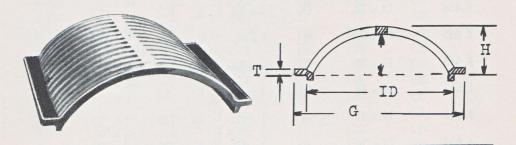
OHIO STANDARD ROADWAY GRATES





STANDARD CATCH BASIN GRATE No. 2-2, No. 2-3, No. 2-4, No. 2-5, No. 2-6

Cat. No. G T S B WT. Type K 634 $27\frac{1}{2} \times 27\frac{1}{2}$ 1 $2 \times 23\frac{1}{2}$ 1 130 CR

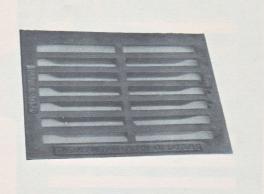


STANDARD CATCH BASIN GRATE

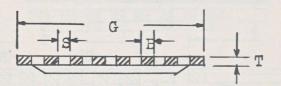
No. 1-2, No. 1-3 and No. 1-4

Cat. No. G T ID S B H WT. K 649 23 x 28 3/4 23 x 23 1½ 3/4 8½ 92

LIGHT DUTY RECTANGULAR GRATES



K 652

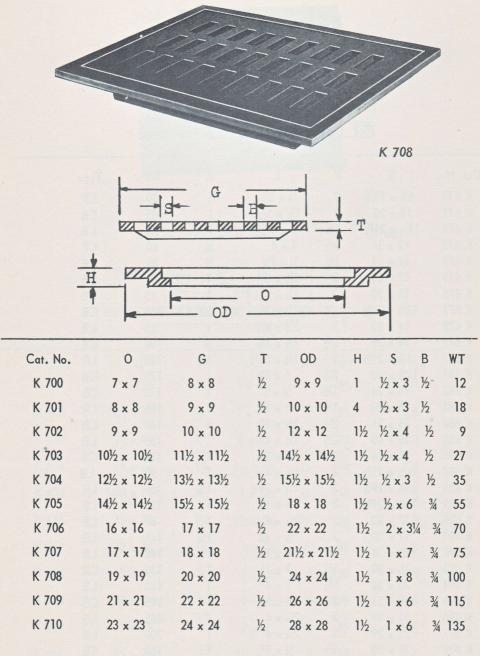


Cat. No.	G	T	S	В	WT	Туре
K 651	12 x 24	11/4	1 x 4	1	65	СВ
K 652	12½ x 16½	1/2	1 x 7	1/2	25	LB
K 653	14 x 24	1	3/4 x 5	1	62	СВ
K 654	14 x 24	11/4	1¼ x 3¾	1/2	100	СВ
K 655	14½ x 20½	1/2	1 x 8½	3/4	35	LB
K 656	15 x 24	11/4	1½ x 3¾	1/2	115	СВ
K 657	18 x 24	11/4	1 x 4½	1	85	LB
K 658	19 x 31	3/4	1 x 7½	11/4	120	СВ
K 659	24 x 36	3/4	1 x 6½	3/4	170	СВ
K 660	25 x 29	. 1	2 x 4	3/4	85	LB
K 661	25 x 29	1	1½ x 3½	1	125	LB
K 662	28 x 52	1	2 x 23	1	230	CR

HEAVY DUTY RECTANGULAR GRATES

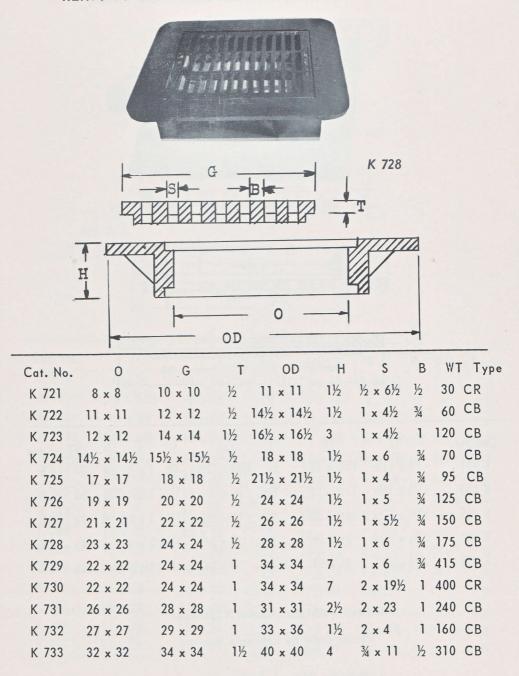
			G		K	682	
Cat. No.	G	Т	S	В	WT	Туре	
K 670	6¾ x 13½	2	½ x 5¾	1/2	30	CR	
K 671	10 x 26	2	1½ x 3½	1	85	CB	
K 672	11½ x 21½	13/4	2 x 4½	i	55	LB	
K 673	12 x 16	1½	1 x 4	3/4	60	LB	
K 674	12 x 24	13/4	3/4 x 93/4	3/4	80	CR	
K 675	12 x 26	2	1½ x 3½	1	100	СВ	
K 676	13 x 20	2	2¾ x 3	1	75	LB	
K 677	13½ x 28½	21/2	1½ x 3¼	1	115	CB	
K 678	14 x 22	2	21/4 x 41/2	1	65	LB	
K 679	14 x 28	21/2	$1\frac{1}{2} \times 3\frac{3}{4}$	3/4	100	СВ	
K 680	14½ x 29½	2	1½ x 26½	11/4	120	LR	
K 681	14½ x 40	21/2	$1 \times 3\frac{3}{4}$	1	170	СВ	
K 682	15 x 24	11/2	3/4 x 5	1	130	СВ	
K 683	15 x 30	1½	1 x 12	1	115	CR	
K 684	15 x 31	21/2	$1\frac{3}{4} \times 3\frac{3}{4}$	1	140	СВ	
K 685	15 x 40	21/2	$2\frac{1}{2} \times 4\frac{1}{2}$	1	155	LB	
K 686	16 x 24	13/4	1 x 3¾	11/4	130	СВ	
K 687	16½ x 21½	2	1½ x 4¼	1	90	LB	
K 688	$16\frac{3}{4} \times 29\frac{3}{4}$	2	1½ x 26¾	11/4	130	LR	
K 689	$16\frac{3}{4} \times 29\frac{3}{4}$	2	1½ x 13	11/4	130	LB	
K 690	17 x 22	2	21/4 x 41/4	1	85	LB	
K 691	17 x 30	2	1½ x 13	11/4	145	LB	
K 692	18 x 24	2	$1\frac{3}{4} \times 2\frac{1}{4}$	1	140	LB	
K 693	18 x 30	1½	1 x 15	1 00	135	CR	
K 694	20 x 24	1½	1 x 4½	1	130	LB	
K 695	20 x 31	21/4	1½ x 3¾	1	185 185	CB	
K 696	24 x 39	2	21/4 x 4	1	200	LB LB	
K 697	25 x 39	2	2½ x 4	1	180	CB	
K 698	27 x 30	1½ 2½	$\frac{34 \times 712}{112 \times 334}$	1	240	LB	
K 699	30 x 33	272	1/2 X 3/4		240		

LIGHT DUTY SLAB TYPE SQUARE GRATE AND FRAME



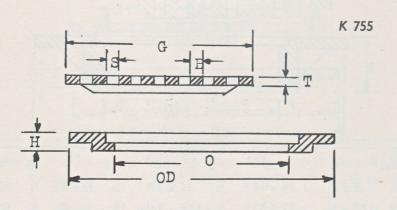
All Grates are (CB) Cross Bar Design

HEAVY DUTY SLAB TYPE SQUARE GRATE AND FRAME



LIGHT DUTY SLAB TYPE RECTANGULAR GRATE AND FRAME



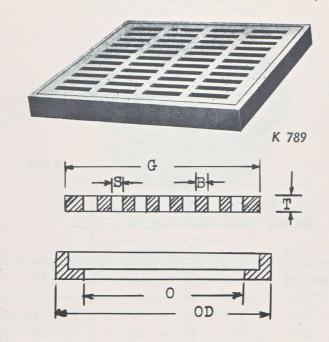


Cat. No.	0	G	T	OD	Н	S	В	WT	Туре
K 751	9¼ x 11¼	10¼ x 12¼	3/4	15½ x 17½	41/2	1 x 8	3/4	90	CR
K 753	11½ x 15½	12½ x 16½	1/2	16 x 20	1½	1 x 4	3/4	50	СВ
K 755	13½ x 19½	14½ x 20½	1/2	18 x 24	1½	1 x 8½	3/4	70	СВ
K 757	23½ x 27½	25 x 29	3/4	30 x 34	1½	2 x 4	1	145	СВ
K 759	23½ x 27½	25 x 29	3/4	30 x 34	1½	1½ x 3½	2 1	185	СВ

All Castings Asphalt Coated If Specified
Please Order By Catalogue Number

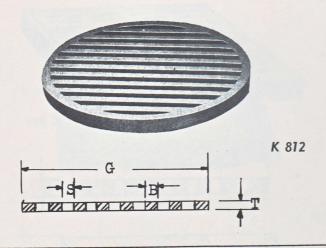
Write for Prices and Information

HEAVY DUTY RECTANGULAR GRATE AND ANGLE TYPE FRAME



Cat. No.	0	G	т	OD		D	WT	-
Cal. No.	0	G	Т	OD	S	В	WT	Туре
K 776	8 x 24	10 x 26	2	11 x 27	1½ x 3½	1	120	СВ
K 777	10½ x 14½	12 x 16	1½	13 x 17	1 x 4	3/4	80	СВ
K 778	10 x 22	12 x 24	11/4	13 x 25	1 x 4	1	90	СВ
K 779	10½ x 22½	12 x 24	1½	13 x 25	34 x 934	3/4	110	CR
K 780	10 x 24	12 x 26	2	13 x 27	1½ x 3½	1	150	СВ
K 781	13 x 23	14 x 24	1	15 x 25	1 x 3¾	1/2	85	СВ
K 782	12 x 22	14 x 24	11/4	15 x 25	3/4 x 5	1	130	СВ
K 783	13 x 22	15 x 24	11/2	16 x 25	3/4 x 5	1	145	СВ
K 784	13 x 28	15 x 30	1½	16 x 31	1 x 12	1	150	CR
K 785	14 x 22	16 x 24	13/4	17 x 25	1 x 3¾	11/4	165	СВ
K 786	16 x 22	18 x 24	11/4	19 x 25	1 x 4½	1	130	СВ
K 787	16 x 28	18 x 30	1½	19 x 31	1 x 15	1	170	CR
K 788	18 x 22	20 x 24	1½	21 x 25	1 x 4½	1	150	СВ
K 789	18 x 29	20 x 31	21/4	21 x 32	1½ x 3¾	1	235	СВ
K 790	25 x 28	27 x 30	1½	28 x 31	$\frac{3}{4} \times 7\frac{1}{2}$	1	300	СВ

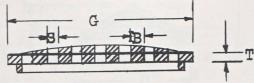
LIGHT DUTY ROUND GRATES



Cat. No.	Pipe Size	G	Т	S	В	WT	
K 801		41/2	1/2	1/4	1/2	1	
K 802		5	1/2	1/4	1/4	1½	
K 803	4	51/2	1/2	1/4	1/4	2	
K 804		6	1/2	1/2	1/2	21/2	
K 805		61/2	1/2	1/2	1/2	3	
K 806		7	1/2	1/2	1/2	3½	
K 807		7½	1/2	1/2	1/2	4	
K 808	6	8	1/2	1/2	1/2	5	
K 809		9	3/4	1/2	1/2	6	
K 810	8	10	3/4	1/2	1/2	8	
K 811		11	3/4	1/2	1/2	9	
K 812	10	12	3/4	1/2	1/2	11	
K 813		13	3/4	1/2	1/2	13	
K 814		14	3/4	1/2	1/2	15	
K 815	12	15	3/4	1/2	1/2	17	
K 816		16	3/4	1/2	1/2	20	
K 817		17	1	1/2	1/2	23	
K 818	15	18	1	1/2	1/2	25	
K 819		19	1	1/2	1/2	28	
K 820		20	3/4	1/2	1/2	30	
K 822	18	22	3/4	1/2	1/2	40	
K 824		24	3/4	1/2	1/2	50	
	All G	rates are (B) Bar D	esign			

LIGHT DUTY ROUND GRATES To Fit Bell of Sewer Pipe CONVEX BAR DESIGN



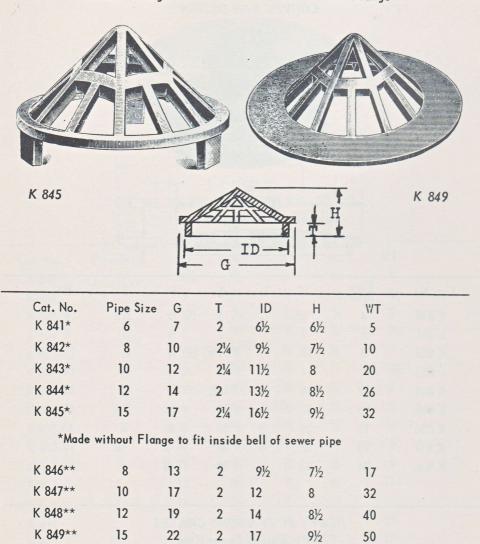


Cat. No.	Pipe Size	G	Т	ID	S	В	WT
K 830	4	61/2	1/2	5	1/2	1/2	4
K 831	6	9	1/2	7	1/2	1/2	8
K 832	8	12	1/2	91/2	1/2	1/2	13
K 833	10	14	1/2	12	1/2	1/2	24
K 834	12	16	1/2	141/2	1/2	1/2	32
K 835	15	20	1/2	18	3/4	3/4	45
K 836	18	24	1/2	22	3/4	3/4	65
K 837	20	261/2	1/2	24	3/4	3/4	90
K 838	24	32	1/2	28	3/4	1/2	130

HEAVY DUTY ROUND GRATES To Fit Bell of Sewer Pipe CONVEX BAR DESIGN

									-
-	Cat. No.	Pipe Size	G	Т	ID	S	В	WT	
	K 839	15	20	3/4	17½	1	1	70	
	K 840	18	24	3/4	21	1	1	100	

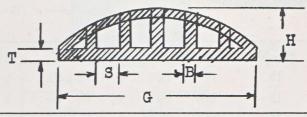
OHIO STANDARD ROADWAY SIDE DITCH GRATES Without Flange With Flange



^{**}Made with Flange to cover rim of sewer pipe

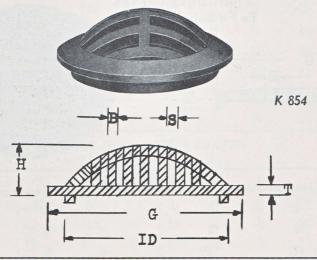
OHIO STANDARD ROADWAY GRATES





NO. 7 STANDARD SIDE DITCH CATCH BASIN GRATE

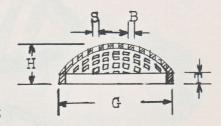
- 10"							
Cat. No.	Pipe Size	G	Т	Н	S	В	WT
K-850	15	22	1	61/4	2	1	80



	CRC	WN TO	P SEW	ER GRA	TES				
Cat. No.	Pipe Size	G	T	ID	Н	S	В	WT	
K 851	6	7½	1/2	51/2	4	11/4	1	15	
K 852	8	10½	1/2	8½	4	11/4	1	20	
K 853	10	121/2	1/2	10½	5	11/4	1	25	
K 854	12	141/2	1/2	121/2	5	11/4	1	30	

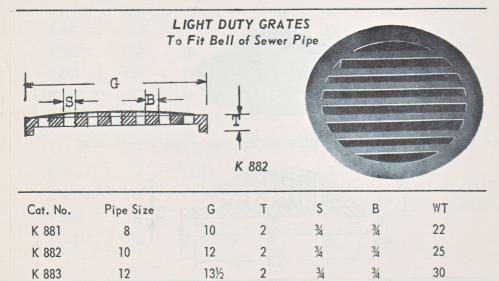
HEAVY DUTY BEEHIVE GRATES To Fit Bell of Sewer Pipe





V	Q	5	5
	O		

-(Cat. No.	Pipe Size	G	Т	Н	S	В	WT	
	K 855	10	12	11/4	4	1¼ x 1¼	3/4	25	
	K 856	12	141/2	21/2	51/2	1½ x 1½	3/4	50	
	K 857	15	18	21/2	6	1½ x 1½	3/4	75	
	K 858	18	22	3	7	2 x 2	. 1	100	
	K 859	24	29	3	9	2 x 2	1	170	



All Castings Asphalt Coated If Specified

Write for Prices and Information

MEDIUM DUTY ROUND GRATES To Fit Bell of Sewer Pipe FLAT BAR DESIGN



K 865

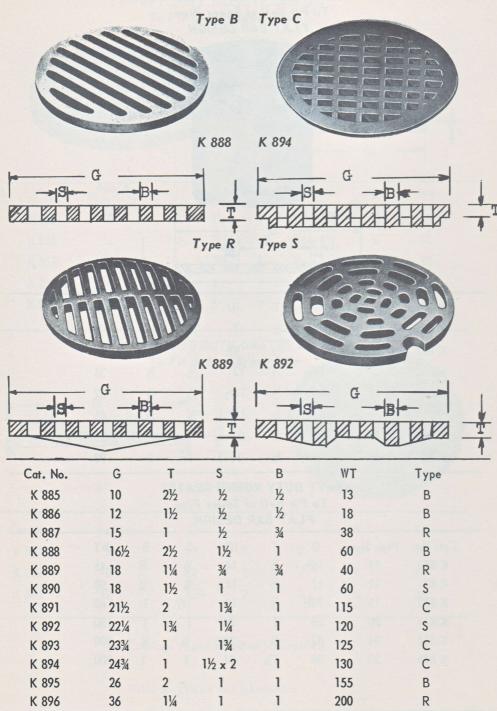
-	G .	1-1		-	1
S		100	VA		-
N				И	

CatNo.	Pipe Size	G	Т	ID	S	В	WT
K 861	6	9	1/2	7	1/2	1/2	8
K 862	8	12	1/2	9½	1/2	1/2	13
K 863	10	141/2	1/2	12	1/2	1/2	24
K 864	12	161/2	1/2	141/2	1/2	1/2	32
K 865	15	20	1/2	18½	3/4	1/2	45
K 866	18	24	1/2	22	3/4	1/2	75
K 867	20	27	1/2	24	1	3/4	90

HEAVY DUTY ROUND GRATES To Fit Bell of Sewer Pipe FLAT BAR DESIGN

Cat. No.	Pipe Size	G	Т	ID	S	В	WT
K 870	12	16½	1/2	14	1/2	1/2	45
K 871	12	17	1/2	141/2	3/4	3/4	50
K 872	15	201/2	1/2	19	1½	1	60
K 873	20	26	1	24	1	1	150
K 874	24	32	3/4	281/2	3/4	3/4	200
K 875	30	36	11/4	34	1	1	200

HEAVY DUTY ROUND GRATES



TERMS and CONDITIONS of SALE

Our TERMS to customers of established credit are net 30 days from date of invoice, f.o.b. Dayton, Ohio, unless otherwise specified.

___ 0 ___

We do NOT make C.O.D. shipments.

A statement of account is rendered to all customers the first of each month.

Never refuse to accept a shipment under any circumstances, as this will result in storage charges accruing. Accept the shipment and write us immediately.

Before accepting SHORT or DAMAGED shipments, be sure to have the carrier sign for the shortage or damange on the ORIGINAL freight bill, so that proper CLAIM can be filed.

Please DO NOT return castings without our permission. Advise us and we will give disposition. A handling charge is made on returned material which has not been shipped incorrectly.

Quotations must be accepted within 30 days from date of quotation. We are not responsible for failure to deliver as a result of fires, strikes, accidents or other causes beyond our control.

Quality Gray Iron Castings

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